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a facsimile communicator that performs a facsimile communication with a facsimile destination via a telephone network;

an electric mail communicator that performs electric mail communication with a destination terminal via a computer network; and

a detector that detects identification information included in a non-standard signal which is transmitted from a facsimile destination while said facsimile communicator performs a facsimile protocol transmission to the facsimile destination, the identification information indicating that a facsimile destination is capable of an electronic mail communication.

54. (New) The communication apparatus according to claim 53, further comprising a memory that is configured to store the identification information, associated with the facsimile destination.

55. (New) The communication apparatus according to claim 53, further comprising a facsimile communication controller that disconnects the facsimile communication when said detector detects the identification information in the non-standard signal.

56. (New) The communication apparatus according to claim 55, wherein said electronic mail communicator starts to perform the electronic mail communication with the facsimile destination upon disconnection of the facsimile communication.

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57. (New) The communication apparatus according to claim 53, the non-standard signal including capability information of the facsimile destination.

58. (New) The communication apparatus according to claim 57, the capability information includes at least resolution, print paper size, and coding system.

59. (New) A communication apparatus comprising:

a facsimile communicator that performs a facsimile communication with a facsimile destination via a telephone network;

an electric mail communicator that performs electric mail communication with a destination terminal via a computer network; and

an obtainer that obtains an electronic mail address of a facsimile destination, included in a non-standard signal which is transmitted from the facsimile destination while said facsimile communicator performs a facsimile protocol transmission to the facsimile destination, when the facsimile destination with which said facsimile communication section performs the facsimile communication, is capable of the electronic mail communication.

60. (New) A communication apparatus comprising:

a facsimile communicator that performs a facsimile communication with a facsimile sender via a telephone network;

an electric mail communicator that performs electric mail communication with a communication terminal via a computer network; and

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an adder that adds identification information to a non-standard signal which said facsimile communicator transmits to the facsimile sender during a facsimile protocol communication, the identification information indicating that the communication apparatus is capable of electronic mail communication.

61. (New) A method for identifying a destination terminal, the method comprising: performing a facsimile communication with a destination terminal via a telephone network;

detecting whether identification information is included in a non-standard signal which is transmitted from the destination terminal while a facsimile protocol transmission is performed with the destination terminal, the identification information indicating that the destination terminal is capable of an electronic mail communication; and

storing the identification information when the identification information is detected.

62. (New) The method according to claim 61, further comprising disconnecting the facsimile communication when the detecting detects the identification information in the non-standard signal.

63. (New) The method according to claim 62, further comprising initiating an electronic mail communication with the facsimile destination after the facsimile communication is disconnected.